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SANTA BARBARA - SANTA CRUZ

MAR 25 200

GERALD DANGL
DEPARTMENT OF VITICULTURE AND ENOLOGY
ONE SHIELDS AVENUE
DAVIS, CALIFORNIA 95616

TELEPHONE: (530) 752-7540 or 752-0380 FAX: (530) 752-0382 E-MAIL: gsdangl@ucdavis.edu

15 March 2002

Anton Caratan Anton Caratan & Son 1625 Road 160 Delano, CA 93215

Dear Mr. Caratan,

On October 24, 2001, we received leaf samples contained in four envelopes labeled as follows:

Blanc, Row 273, Vine#28 Blanc, Row 278, Vine#22 Margaux, Row 258, Vine#5 Margaux, Row 259, Vine#3.

We treated the four envelopes as separate samples and extracted DNA from leaves of each envelope. On the enclosed sheet please find the DNA profile for these samples.

The DNA was typed with 10 grape microsatellite DNA markers. The consensus in the grape genetics research community is that 6 such markers are sufficient to differentiate all grape varieties except sports, so the use of 10 markers provides a very high degree of confidence that the profiles we have obtained are unique to your varieties.

Yours truly,

Jerry Dangl

Staff Research Associate

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## Meredith Lab, University of California, Davis

## 15 March 2002

## Allele sizes in base pairs for 10 microsatellite DNA markers

Mary	Mary	Blan	Blar	
aux,	aux,	c R	c, R	Ş
Row	Row	SW 27	3₩ 27	Sample Name
259,	258,	8, Vi	3, Vi	e Nar
	Margaux, Row 258, Vine#5	Blanc, Row 278, Vine#22	Blanc, Row 273, Vine#28	ne
135	135	135	135	SAA
151 228	151	151	151 228	<b>32</b> *
228	228	228	228	IVV
236	236	236	236	#D6"
236 249	3 249	239	239	VVS2* VVMD6* VVMD7* VVMD27* VrZAG62* VrZAG79*
		249		AD7*
181	181	18	249 181	NAA
194	<del>1</del> 94	1 194 187 1	<del>2</del>	D27*
187	187	187	187	VrZA
194 187 205 247	205 247	189	187 189 247	G62*
247	247	247	247	VrZ/
*	:	257	257	(G79°
214	214	214	214	
:	:		:	9QIN
261	26	26	K	VVMD6 VVMD28 V
•	1	:	;	ID28
212	212	212	212	MAA
220	220	11 212 253 265	!	ID31
265	265	253	253	VVMD3
273	273	265	265	1D32

Meredith Lab as common markers to facilitate exchange of data among grape research laboratories. \*The 6 markers indicated by an asterisk have been adopted by the European Union Grape Genetic Resources Working Group and the

Note: The base pair numbers used to designate grape microsatellite alleles may differ slightly between laboratories because of diff rences in methodology. Non-numerical allele designations have not yet been adopted by the grape genetics research community. being analyzed. The alleles indicated above are also observed in the following cultivars: Adjustments for inter-laboratory differences can be made by referencing common cultivars that have the same alleles as the samples

Marker	Aileie	Reference cuttivars
WS2	135	Muscat Hamburg (small allele), Daltier (large allele)
	151	Thompson Seedless (large), Flame Seedless (large)
VVMD5	228	Crimson Seedless (small), Ruby Seedless (small)
	236	Crimson Seedless (large), Ruby Seedless (large)
VVMD7	239	Thompson Seedless (small), Flame Seedless (small)
	249	Crimson Seedless (large), Ruby Seedless (large)
VVMD27	181	Thompson Seedless (small), Flame Seedless (small)
	<u>1</u> 92	Thompson Seedless (large), Ruby Seedless (only allele)
VrZAG62	187	Dattier (small), Muscat of Alexandria (small)
	189	Thompson Seedless (only alfele), Perlette (smail)
	205	Perlette (large), Ruby Seedless (large)

Marker	Allele	Reference cultivars
VrZAG78	247	Thompson Seedless (small), Perlette (small)
	257	Ruby Seedless (small), Grenache (only allele)
VVMD6	214	Muscat of Alexandria (large), Muscat Hamburg (large)
VVMD28	261	Dattier (large allele), Carignane (large)
VVMD31	212	Flame Seedless (only allele), Perlette (only allele)
	220	Crimson Seedless (large), Ruby Seedless (large)
VVMD32	263	Thompson Seedless (only allele), Perlette (small)
	285	Crimson Seedless (large), Ruby Seedless (large)
	273	Periette (large), Flame Seedless (large)

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PLANT COLOR CODING SHEET (to be used for new applications only)			<b>T</b>	Attorney Docket Number	W-3942
			_	First Named Inventor	JOSEPH MARANTO
			cations only)	FOR OFFICIAL USE ONLY	
				Date of Receipt	
Sheet	1	of	1	Application Number	

	ITEM	COLOR
TRUNK:	Bark:	Dark brown (8-E-11)
	Underbark:	Medium brown (7-C-12 India Tan)
	Mature canes:	Raw Sienna (13-L-10)
LEAVES:	Dorsal surface:	Dark green (24-L-7)
	Ventral surface:	Light green (23-L-7)
	Leaf vein - midrib:	Grape green (21-J-1)
FLOWERS:	Pistils:	Light green (22-L-4
	:	Calla green)
FRUIT:	Skin:	Light green (21-K-2) and
		amber yellow (10-J-3)
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